Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No.KMTH/PMC/YD/2021-22/W3/P-2 Date: 30-11-2021

To,
The Executive Engineer,
Yelahanka Old Town,
Sub Division, Bengaluru.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Sub: Regarding Quality report for the below mentioned work.

Name of work: "Comprehensive Developments of Roads and Drains in Sai Nagara Phase-1 and 2 yelahanka 208,407,707 SFS, Attur Village and chitra layout in Attur ward no- 03 in yelahanka division (package-02)"

Item No	Description of Work	Unit	Quantity	No of Samples Tested	Standards
1	Providing and Laying Plain Cement Concrete of Mix 1:4:8 with OPC @220Kgs With Crushed 40mm and Down Size Graded Granite.	Cum	910.66	18	Per 100 Cum
2	Providing TMT Steel Reinforcement for RCC work Including Straightening, Cutting, Bending, Hooking, Placing in Positions.	Ton	109.73	3	For each Dia
3	Providing and Laying Reinforced Cement Concrete for Side Drains using M20 Nominal Mix Concrete with OPC@300Kgs with 20mm Down Size.	Cum	1795.16	24	Per 50 Cum
4	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite Jelly 20mm & down size.	Sqm	4389.14	9	Per 500
5	Providing and fixing RCC Precast cover slab of 250mm thick for Culverts in cement concrete 1:1.5:3 using graded granite Jelly 20mm & down size.	Sqm	166.20	9	Per 30
6	providing and fixing Pre cast solid concrete kerb stones of size 450x200x400 mm made of CC 1:2:4 and finished with CM 1:3 plastering	Nos	1587.97	6	Per 500

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7	construction of granular sub-base grading-v as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite material, mixing by mix in place method by rotavator at OMC spreading in uniform layers with motor grader on prepared surface and compactioning with vibratory power roller to achieve the 98% proctor density, complete as per specification. clause 401 of MORTH V revision	Cum	2119.81	10	Per 200
8	KSRRB M400-17. Providing, Laying, Spreading and Compacting cushed stone aggregates of granite/ trap/basalt to wetmix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification.	Cum	4516.77	10	Per 100
9	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and allignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10.	Cum	1114.15	10	Per 250
10	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade).	Cum	676.24	10	Per 250

With respect to the above Subject Name of work, we have inspected the work , Quantity and Quality of above mentioned Item of work was found to be satisfactorily completed for the 1st And Final bill.

Thanking You,

With Regards,

Karnataka Material Test House Pvt Ltd.,

Narayanswamy.B
Managing Director

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No.KMTH/PMC/YD/2021-22/W3/P-2 Date: 30-11-2021

To,
The Executive Engineer,
Yelahanka Old Town,
Sub Division, Bengaluru.

"PMC CERTIFICATE AND INSPECTION REPORT"

Dear Sir,

Sub: Regarding inspection report for the below mentioned work.

Name of work: "Comprehensive Developments of Roads and Drains in Sai Nagara Phase-1 and 2 yelahanka 208,407,707 SFS, Attur Village and chitra layout in Attur ward no- 03 in yelahanka division (package-02)"

Item No	Description of Work	Unit	Quantity
1	KSRRB 300- Excavation for Drains and similar works KSRRB 300-01 Earth Work Excavation by Manual Means In Ordinary Soil Involving an Average.	Cum	6025.88
2	Providing and Laying Plain Cement Concrete of Mix 1:4:8 with OPC @220Kgs With Crushed 40mm and Down Size Graded Granite.	Cum	910.66
3	KSRRB M 2200-06 Providing TMT Steel Reinforcement for RCC WORK Including Straightening, Cutting, Bending, Hooking, Placing in Positions.	Tons	109.73
4	Providing and Laying Reinforced Cement Concrete for Side Drains using M20 Nominal Mix Concrete with OPC@300Kgs with 20mm Down Size.	Cum	1795.16
5	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite Jelly 20mm & down size.	Sqm	4389.14
6	Providing and fixing RCC Precast cover slab of 250mm thick for Culverts in cement concrete 1:1.5:3 using graded granite Jelly 20mm & down size.	Sqm	166.20
7	providing and fixing Pre cast solid concrete kerb stones of size 450x200x400 mm made of CC 1:2:4 and finished with CM 1:3 plastering	Nos	1587.97

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8	Painting two coats after filling the surface with synthentic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour completed as per specifications.	Sqm	286.12
9	KSRRB M300-14.Excavation for roadwork in all types of soil by machinical means including cutting and loading to tippers, trimming bottomand sides slopes in accordance with requirments of lines grades and cross sections and transportations withn alead of 1.00km and complete as per specifications. MORTH Specification no.301 and 4kms lead for disposal	Cum	1688.89
10	KSRRB 300-46. Scarifying by mechanical means stone metal crust 50mm-100mm thick by along with20mm premix carpet/ surface dresseing and stackling of old servicable materials including cost of all labours charge, HOM complete as per specifications (P.No-146,I No.52)	Sqm	11305.21
11	KSRRB 300-58. Compacting original Groung with maximum of 6 Passes of 8-10 tonnes power roller including filling in depression occuring during rolling including cost of all labours, HOM of machinary complete as per specifications. MORTH / Chapter 3 (I No-19.64, P No-147)	Sqm	1152.00
12	construction of granular sub-base grading-v as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite material, mixing by mix in place method by rotavator at OMC spreading in uniform layers with motor grader on prepared surface and compactioning with vibratory power roller to achieve the 98% proctor density, complete as per specification. clause 401 of MORTH V revision	Cum	2119.81
13	KSRRB M400-17. Providing, Laying, Spreading and Compacting cushed stone aggregates of granite/ trap/basalt to wetmix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base /base coarse on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification.	Cum	4516.77
14	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granlar base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 KG/Sqm using mechanical means complete as per specifications and as per directions of the engineer in charge of the work.	Sqm	19613.52
15	Cleaning the existing block topped surface with Sqm brooms , soft brushes and finally dusting with old gunny bags and /or compressed air to receive bituminous treatment	Sqm	10464.60
16	KSRRB 500--10 Providing and applying tack coat using 80/100 grade bitumen(VGIO) in boiler fitted with spray set distributor at the rate of 0.25 kg per Sqm on the existing prepared bituminous surface cleaned with mechanical broom complete as per specifications. clause 503 of MORTH V revision.	Sqm	30125.40

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17	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10.	Cum	1114.15
18	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminious binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and o.43% of plastomeric thermoplastic(waste plastic) crushed aggregates of specified grading pre mixed with bituminous binder.	Cum	1086.91
19	Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous/ concrete surface. providing and laying of hot applied thermoplastic compound 2.5mm thick including reflect rising glass beads at 250gms/ Sqm area, thickness of 2.5mm is exclusive of surfsce applied glass beads as per IRC: 35 standards specified the finished surface to be levell uniform and free from streaks and holes complete as per speciationd MORTH specification No.803	Sqm	1215.53
20	KSRRB M800-35. Supply and installation of molded shank raised pavment markers made up of poly carbonate and ABS (acrylonitrile Butadiene styrene) molded body and reflective pannels with microprismatic lens capable of providing total internal reflection of the light entering the lense face and shall support load of 16000 KG tested in accordance to specifications of catagory A of MORTH circular No. RW/NH/33023/10-97 - DO III Dt 11.06.1997. the height width and length shall not exceed 50mm, 100mm and 102mm and with minimum reflective area of 13Sqcm on each side and the slope to the base shall be 35o the strength of detachment of the intergated cylindrical shanks (of diameter not less than 19mm and height not less than 30mm) from the body is to be a minimum value of 500KG. fixing will be by drilling hole on the road for the shanks to go inside, with out nails and using Epoxy resin based adhesive as per manufacuter recommendations and complete as directed by the engineer	No's	1597.04
21	KSRRB M200/24 Dismantelling of cement concrete pavement by mechanical means using pneumatic tools breaking into pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantelled materials stacking servicable and unservicable materials saparately complete as per specifications.	Cum	2011.26

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22	Providing and Constructing dry lean cement concrete mix CC1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregates at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregatesconforming to IS: 383-2016, aggregates gradation after blending to be as per table 600-1 optimum moisture content to be determined during trial length construction concrete strength not to be less tham 10Mpa at 7 days mixed in a batch mixer plant transportated to site, laid with a paver, compacting with 8-10 tonnes vibratory roller	Cum	1226.46
23	Constructing Un-reinforced plain cement concrete for pavements using grade concrete M30 over a prepared base with OPC coarse aggregates at 0.69Cum fine aggregates at 0.46cum coarse and fine aggregates conforming to IS: 383-2016, with superplastisizer at 3 its conforming to IS: 9103-2008 mixed in a concrete mixer of not less than 0.6cum capacity and appropriate weight batcher as per approved mix design laid in approved fixed side form work and spreading the concrete with shovels, rackers compacted using needles screed and plate vibrator and finished with floaters in a contineous operation including provision of contraction and cover the surface by gunny bags for curing.	Cum	1226.46

With respect to the above subject and name of work, We have inspected the work , Quantity and Quality of above mentioned Items of work was found to be satisfactorily completed for the 1st And Final Bill.

Thanking You,

With Regards

Karnataka Material Test House Pvt Ltd.,

Narayanswamy.B
Managing Director

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